TOTAL AW

LUBRICATION

MANSOUR GROUP

Anti-wear hydraulic oils

APPLICATIONS

- **TOTAL AW** oils are anti-wear hydraulic oils designed for high-pressure hydraulic systems with gear, piston or vane pumps.
- Using field proven zinc-type anti-wear additive systems, **TOTAL AW** oils minimize wear in high-pressure vane and gear pumps and are also good performers in axial piston pumps using bronze components.
- **TOTAL AW** oils have good thermal stability and effectively shed water allowing easy drainage of water from machine sumps.
- **TOTAL AW** oils are recommended for use in industrial hydraulic systems.
- **TOTAL AW** oils meet the specifications of some pump manufacturers.

SPECIFICATIONS

International Specifications

- ISO 11158 HM
- DIN 51524 P2 HLP
- ANSI/AGMA 9005-E02-RO

OEM

- PARKER (DENISON) HF0, HF1, HF2
- EATON (VICKERS) M-2950-S, I-286-S

ADVANTAGES

- Good anti-wear properties
- Good thermal stability avoiding formation of sludge even at high temperature.
- Very good oxidation stability ensuring a long service life of the fluid.
- Remarkable filterability even in the presence of water.
- Excellent hydrolytic stability avoiding filter blocking.
- Good demulsibility ensuring rapid water separation

PROPERTIES	ASTM Method	AW 22	AW 32	AW 46	AW 68	AW 100
ISO Viscosity Grade	-	22	32	46	68	100
Viscosity in cSt at 40°C	D445	21	32	46	68	102
Viscosity in cSt at 100°C	D445	4.2	5.4	6.9	8.7	11.6
Viscosity index, min.	D2270	100	100	100	99	99
Density in kg/dm^3 at 15°C	D1298	0.87	0.87	0.88	0.88	0.88
Flash Point in °C, minimum	D92	208	220	230	234	240
Pour Point in °C	D97	-30	-27	-27	-21	-18
Color ASTM, maximum	D1500	1.0	1.0	1.0	1.5	1.5

REMARK: Although the preceding values are typical properties, they do not represent guaranteed characteristics.

MANSOUR CHEMICALS & COMMODITIES

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